

The Ultimate Administrator's Guide to HCL Nomad Web

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Host & Speaker



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All attendee lines are muted

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Agenda

- ▶ A short introduction into HCL Nomad Web
- ▶ Latest releases
- ▶ Infrastructure overview and installation
- ▶ Best Practices
- ▶ **DEMO** – if we have time 😊
- ▶ Bonus
- ▶ Q & A





A short introduction into HCL Nomad Web



Nomad (mobile)



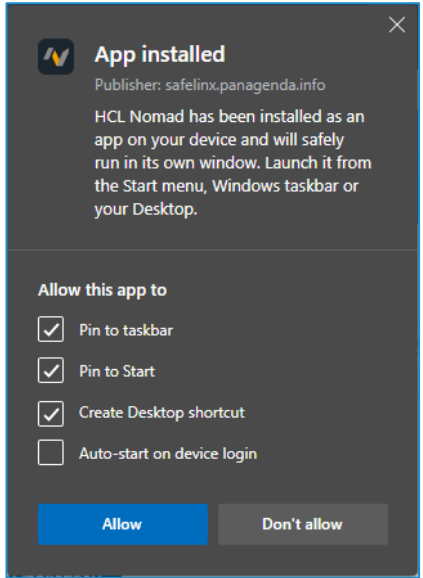
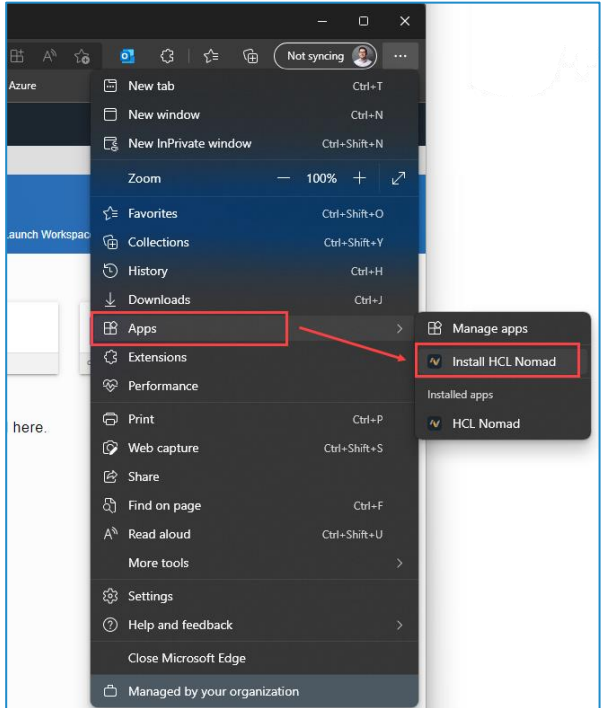
Nomad Web

Official name
"HCL Nomad for web browser"

Introduction to HCL Nomad Web (cont.)



Introduction to HCL Nomad Web (cont.)



Introduction to HCL Nomad Web (cont.)

The screenshot displays the HCL Nomad Web interface across multiple overlapping windows. The top window shows the 'Home' page with a 'Recent Applications' sidebar containing 'MarvelClient Config'. The middle window shows the 'Workspace' view with a navigation bar for 'My start page', 'MarvelClient', and other workspaces. The bottom window shows the 'MarvelClient Config (server01)' configuration page, which includes a left-hand navigation tree and a main content area with a table of configuration items.

Active	Obj	Priority	Type	Dev.	Plat.	Who	When	Last modified	UTC+SE	Conditions	Title
3	3										Migration Roaming - Analyze variables
3	3										Migration Roaming - Rollback
3	3										Upload Migration Roaming Set
4	4										Enable Essentials Shutdown Runtime (ni.MC_EssentialsShutdo
4	4										ANALYZE: Exclude In-Entries Directory, SharedDataDirectory at
2	2										Set Path to MC Analyze (ni.MC_UploadDB)
2	2										BACKUP: Upload Audit / Monitoring Data into Analyze Database
9	8										Workspace Page 1
9	8										ANALYZE: Exclude In-Entries Directory, SharedDataDirectory at
9	8										ROAMING: Exclude In-Entries Directory, SharedDataDirectory at
9	8										Send and Receive Smallest First (All Locations)
9	8										Desktopicon: Manage Mailfile Icon on Page 1, top left
3	3										Export Extended Database Information and ID file Details
3	3										Set Path to MC Analyze (ni.MC_UploadDB)
3	3										BACKUP: Upload Audit / Monitoring Data into Analyze Database
1	1										Measure Latency before user's mailserver

Introduction to HCL Nomad Web (cont.)

License requirements

To use HCL Nomad for web browsers, you agree to obtain and maintain an active subscription and Support for HCL Domino Complete Collaboration (CCB). Please note, only CCB customers are entitled to use HCL Nomad for web browsers.



A Match made in **Heaven**



HCL Nomad



MarvelClient™

MarvelClient is automatically included in Nomad (mobile) & Nomad Web

MarvelClient for Nomad (mobile) & Nomad Web

Analyze	Web unlicensed	Web + Basic	iOS	Android
Desktop, Bookmarks	✓	✓	✓	✓
notes.ini, User Preferences	✓	✓	✓	✓
Mailfile Details	✓	✓	✓	✓
HCL Notes/Nomad Version and Installation Information	✓	✓	✓	✓
Local Databases / Replicas		✓	✓	✓
ECL		✓	✓	✓
Server ↔ Client Latency		✓	✓	✓
Locations, Connections, Accounts, Certificates		✓	✓	✓
OS and Hardware Overview			✓	✓

MarvelClient for Nomad (mobile) & Nomad Web (cont.)

Configuration	Web unlicensed	Web + Basic	iOS	Android
notes.ini and MC Config Variables	✓	✓	✓	✓
Any .ini, xml, or json File	✓	✓	✓	✓
User Preferences	✓	✓	✓	✓
Up/Download	Web unlicensed	Web + Basic	iOS	Android
Upload Data for Analyze	✓	✓	✓	✓
Smart File Downloader			✓	✓
File Deployment (platform restrictions may apply)			✓	✓
Run	Web unlicensed	Web + Basic	iOS	Android
Run Agents		✓	✓	✓
Run Notes Formulas		✓	✓	✓
Run Programs				✓

MarvelClient for Nomad (mobile) & Nomad Web (cont.)

Migrate	Web unlicensed	Web + Basic	iOS	Android
Mass Change to Update Database Links		✓	✓	✓
Mass Delete to Remove Database Links		✓	✓	✓
Manage	Web unlicensed	Web + Basic	iOS	Android
Workspace Pages		✓	✓	✓
Desktop Icons		✓	✓	✓
Locations		✓	✓	✓
Connections		✓	✓	✓
ECL		✓	✓	✓
Profile Documents		✓	✓	✓
Local Replicas*		✓	✓	✓

* Local replicas are available HCL Nomad Web 1.0.4 and higher

MarvelClient for Nomad (mobile) & Nomad Web (cont.)

Nomad Specific	Web unlicensed	Web + Basic	iOS	Android
Recent Apps		✓	✓	✓
App Restrictions	✓	✓	✓	✓
Nomad Location		✓	✓	✓
Nomad Web Migration**	✓	✓		
Nomad Roaming***		✓	✓	✓

** Nomad Web Migration is available in HCL Nomad Web 1.0.2 and higher

*** Nomad Roaming is available in HCL Nomad Web 1.0.5 and higher and needs to be licensed with panagenda



A white 3D-rendered scene with several rectangular blocks of varying heights and widths, creating a stepped landscape. A white ladder with blue accents is leaning against the blocks on the left side. A vertical blue line is positioned to the left of the text "Latest releases".

Latest releases

HCL Nomad Web – releases

Version	Release Date
1.0.9	2023-09-13
1.0.8	2023-05-24
1.0.7	2023-03-08
1.0.6	2022-12-06
1.0.5	2022-09-22
1.0.4	2022-07-13
1.0.3	2022-03-30
1.0.2	2021-12-14
1.0.1	2021-09-17
1.0.0	2021-05-27

HCL Nomad Web – current releases notes

What's new in HCL Nomad for web browsers

✓ **Release 1.0.9** [🔗](#)

- **Information box support**

Information boxes are used to show Application Properties, Document Properties, Database Properties, Text Properties, Workspace Properties, etc. Rather than being a free floating dialog as the information box is in HCL Notes, the information box is shown docked on the right side.

- **File > Import** has been enhanced to support more previously unsupported file types. For more information, see [Limitations](#).

- **Domino Restyle updates:**

- User-supplied themes.

Restyle can now utilize user-supplied themes stored in a shared database. For more information, see [Customizing themes with Restyle](#).

- Users can import an application icon. For more information, see the bullet on the **fourth tab - Create icon** in [Domino Restyle for Notes applications](#) in the Notes documentation.

- Shared fields and shared columns are now restyled. For more information, see [Settings in the Restyle wizard](#).

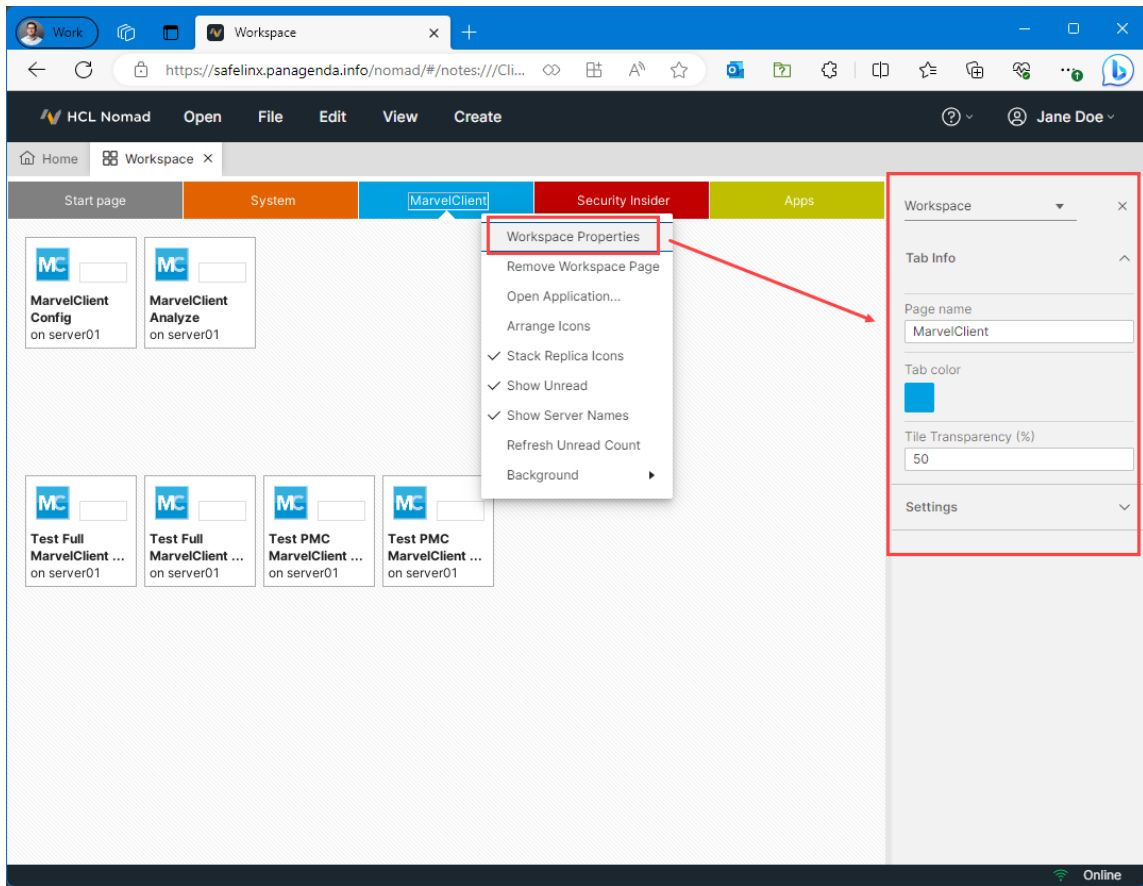
- Users can optionally apply updated icons for action buttons and view column icons. For more information, see [Settings in the Restyle wizard](#).

- Restyle only selected portions of the application. For more information, see [Settings in the Restyle wizard](#).

- Restyle can now utilize user-supplied typography. For more information, see [Customize typography with Restyle](#).



Properties Dialog - Workspace

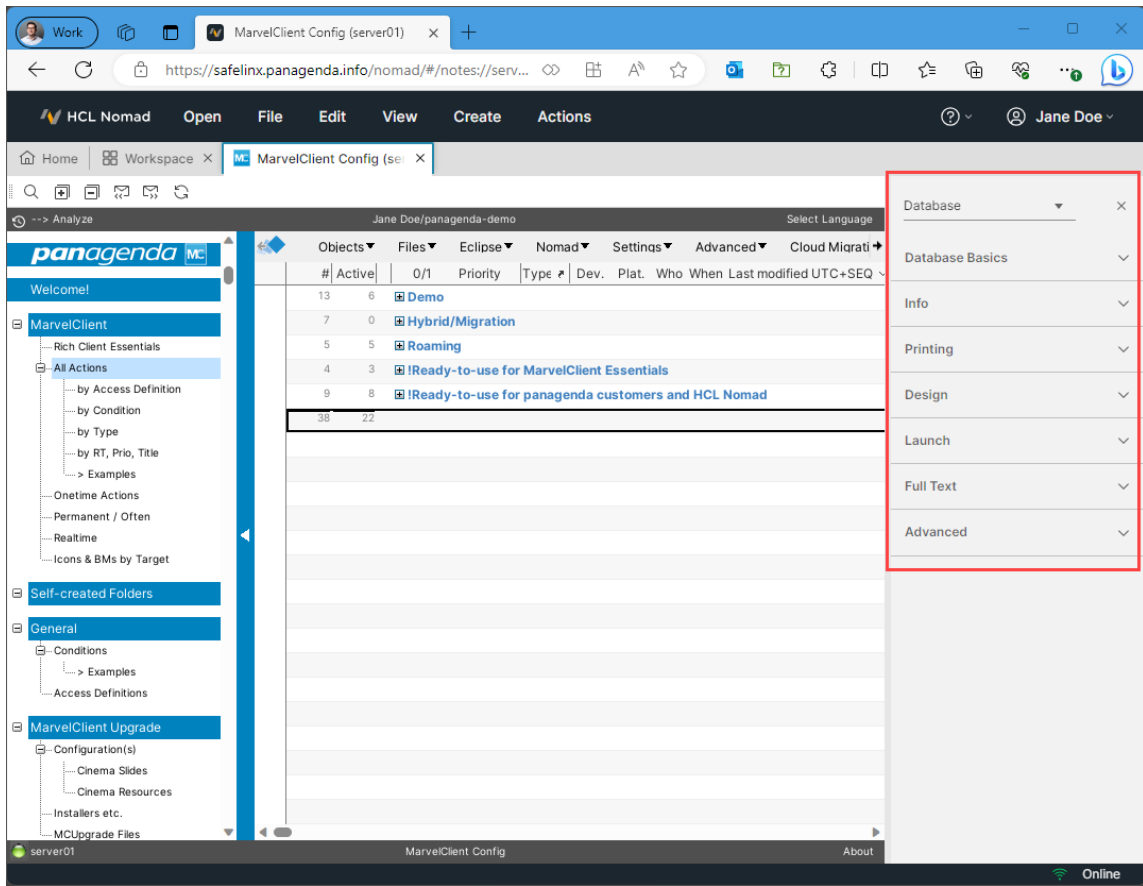


The screenshot shows the HCL Nomad Workspace interface. At the top, there is a navigation bar with 'HCL Nomad', 'Open', 'File', 'Edit', 'View', and 'Create' menus. Below this is a workspace header with tabs for 'Start page', 'System', 'MarvelClient', 'Security Insider', and 'Apps'. The 'MarvelClient' tab is active. A context menu is open over the 'MarvelClient' tab, listing options such as 'Workspace Properties', 'Remove Workspace Page', 'Open Application...', 'Arrange Icons', 'Stack Replica Icons', 'Show Unread', 'Show Server Names', 'Refresh Unread Count', and 'Background'. A red arrow points from the 'Workspace Properties' option in the context menu to a 'Workspace Properties' dialog box on the right side of the screen. The dialog box contains the following fields:

- Workspace:
- Tab Info:
- Page name:
- Tab color:
- Tile Transparency (%):
- Settings:

The interface also shows several application tiles for 'MarvelClient' on 'server01', including 'MarvelClient Config', 'MarvelClient Analyze', 'Test Full MarvelClient ...', and 'Test PMC MarvelClient ...'. The bottom right corner of the interface shows an 'Online' status indicator.

Properties Dialog - Database



The screenshot shows the HCL Nomad web interface. The main workspace displays a table of objects for 'MarvelClient Config'. A 'Database' properties dialog box is open on the right side, highlighted with a red border. The dialog has a title bar 'Database' and a close button 'X'. It contains a list of expandable sections: Database Basics, Info, Printing, Design, Launch, Full Text, and Advanced.

Objects	Files	Eclipse	Nomad	Settings	Advanced	Cloud Migration
#	Active	0/1	Priority	Type	Dev.	Plat. Who When Last modified UTC+SEQ
13	6	☑	Demo			
7	0	☑	Hybrid/Migration			
5	5	☑	Roaming			
4	3	☑	!Ready-to-use for MarvelClient Essentials			
9	8	☑	!Ready-to-use for panagenda customers and HCL Nomad			
38	22					

Properties Dialog - Document



The screenshot shows the HCL Nomad web interface. The main area displays a list of documents under the 'MarvelClient' workspace. A document titled 'Ready-to-use for panagenda customers and HCL Nomad' is selected and highlighted with a red box. A red arrow points from this document to the 'Properties Dialog - Document' on the right side of the screen.

#	Active	Priority	Type	Dev.	Plat.	Who	When	Last modified UTC+SEQ
13	6		Demo					
7	0		Hybrid/Migration					
5	5		Roaming					
4	3		Ready-to-use for MarvelClient Essentials					
9	8		Ready-to-use for panagenda customers and HCL Nomad					
		1,500,000,000	Page				20190918T1161434Z0030	
		n/a					20220915T140544Z0100	
		n/a					20220915T154415Z0102	
		n/a					20180929T132739Z0090	
		3,000,000,000					20180929T132854Z0222	
3	3		Audit/Monitoring					
1	1		Performance Monitoring					

The Properties Dialog on the right shows the following sections:

- Document
- Document Info
- Fields
- Printing
- Security
- Meta
- Document IDs
- ID: OFB2BDC3CB:D52DF34D, ONC1258640:0038C5A2, SDC1258640:0038D4C7-SN0000002, DBC12586FC:0028CCA9, NT0000279A

HCL Nomad Web – current releases notes (cont.)

Fixes

1.0.9

Issue Identifiers	Defect Article	Details
NWASM-5045	KB0107486	Attachments are not being searched when including attachments for Full Text Indexing when creating a local replica
NWASM-5273	KB0107475	Text alignment issues for pre-formatted text in drop-down menus and list boxes
NWASM-5274	KB0107472	Drop-down menu positioning in dialogs is incorrect
NWASM-5275	KB0107492	Field with "Native OS Style" with "allow multiple lines" disabled allows newlines
NWASM-5292	KB0105359	Combo box on a layer steals clicks intended for other components
NWASM-5339	KB0107490	The scroll bar for a tabbed table with embedded views on a dialog is shown below the table
NWASM-5364	KB0107504	Change password menu option should only be available if Nomad Shared Login is disabled
NWASM-5390	KB0107485	Quick Find and then change category chops search text to one character
NWASM-5440	KB0107487	File name containing & cannot be opened
NWASM-5456	KB0106509	Date fields not displayed the same way in Notes and Nomad for web browsers
NWASM-5511	KB0106416	Password field with Native OS style doesn't mask the characters
NWASM-5512	KB0107471	Behavior of "Dialog List" Field on Nomad for web browsers is not similar to that of Notes Client
NWASM-5604	KB0106415	IME does not work in native input controls if the controls are on dialogs
NWASM-5605	KB0106594	File truncated error attaching multiple files with the same name
NWASM-5614	KB0106403	Firefox "View Saved Logins" pop up seen for all text fields if a password field is rendered anywhere on the page
NWASM-5615	KB0106411	When in a password field, tab is added to the input string rather than navigating between fields
NWASM-5631	KB0106407	NotesUIWorkspace.SaveFileDialog filter string may appear corrupted for non-ASCII characters
NWASM-5654	KB0106410	NotesUIWorkspace.SaveFileDialog does not appear if no filter is provided
NWASM-5659	KB0106408	Crash when reopening a document with a bitmap as the background of the form
NWASM-5694	N/A	Documentation incorrectly stated that LotusScript Lock and Unlock were unsupported when they are supported.
NWASM-5710	KB0107011	IME in dialogs does not work for the first character
NWASM-5725	KB0106762	Cannot save a file with non-ASCII characters using LotusScript
NWASM-5727	KB0106760	Unable to attach a file with a comma in the file name
NWASM-5732	KB0106936	Diagonal line is drawn across a button when highlighted
NWASM-5756	KB0107422	Nomad client setups through Nomad server on Domino fail when the mail server name includes non-ASCII characters



Downloads

HCL_Nomad_Web_1.0x


Files Download Log Notification Log

Download Selected Files

9 File(s)

<input type="checkbox"/>	+	File Description	File Size	File Added	File Name
<input type="checkbox"/>	+	HCL Nomad for web browsers 1.0.8 for Safelinx	137.25MB	May 24, 2023	HCL_Nomad_web_1.0.8_20230519-4788_for_HCL_SafeLinx.zip
<input type="checkbox"/>	+	HCL Nomad for web browsers 1.0.9 for Safelinx	162.98MB	Sep 14, 2023	HCL_Nomad_web_1.0.9_20230911-5325_for_HCL_SafeLinx.zip
<input type="checkbox"/>	+	HCL Nomad for web browsers 1.x release notes	177.34KB	May 21, 2021	HCL_Domino_Nomad_web_1.0.x_Release_Notes.pdf
<input type="checkbox"/>	+	HCL Nomad server 1.0.8 for Domino 12.0.1 Linux (includes Nomad web browser client)	176.23MB	May 24, 2023	nomad-server-1.0.8-for-domino-1201-linux.tgz
<input type="checkbox"/>	+	HCL Nomad server 1.0.8 for Domino 12.0.1 Windows (includes Nomad web browser client)	161.74MB	May 24, 2023	nomad-server-1.0.8-for-domino-1201-win64.zip
<input type="checkbox"/>	+	HCL Nomad server 1.0.8 for Domino 12.0.2 Linux (includes Nomad web browser client)	176.24MB	May 24, 2023	nomad-server-1.0.8-for-domino-1202-linux.tgz
<input type="checkbox"/>	+	HCL Nomad server 1.0.8 for Domino 12.0.2 Windows (includes Nomad web browser client)	161.74MB	May 24, 2023	nomad-server-1.0.8-for-domino-1202-win64.zip
<input type="checkbox"/>	+	HCL Nomad server 1.0.9 for Domino 12.0.2 Linux (includes Nomad web browser client)	203.27MB	Sep 14, 2023	nomad-server-1.0.9-for-domino-12.0.2-linux.tgz
<input type="checkbox"/>	+	HCL Nomad server 1.0.9 for Domino 12.0.2 Windows (includes Nomad web browser client)	188.79MB	Sep 14, 2023	nomad-server-1.0.9-for-domino-12.0.2-win64.zip

HCL Nomad Web – my.hcltechsw.com (beta)

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HCL Nomad

1.0.x

Name	Released	↓
1.0.8	May 24, 2023	
1.0.7	Mar 8, 2023	

Supporting Resources

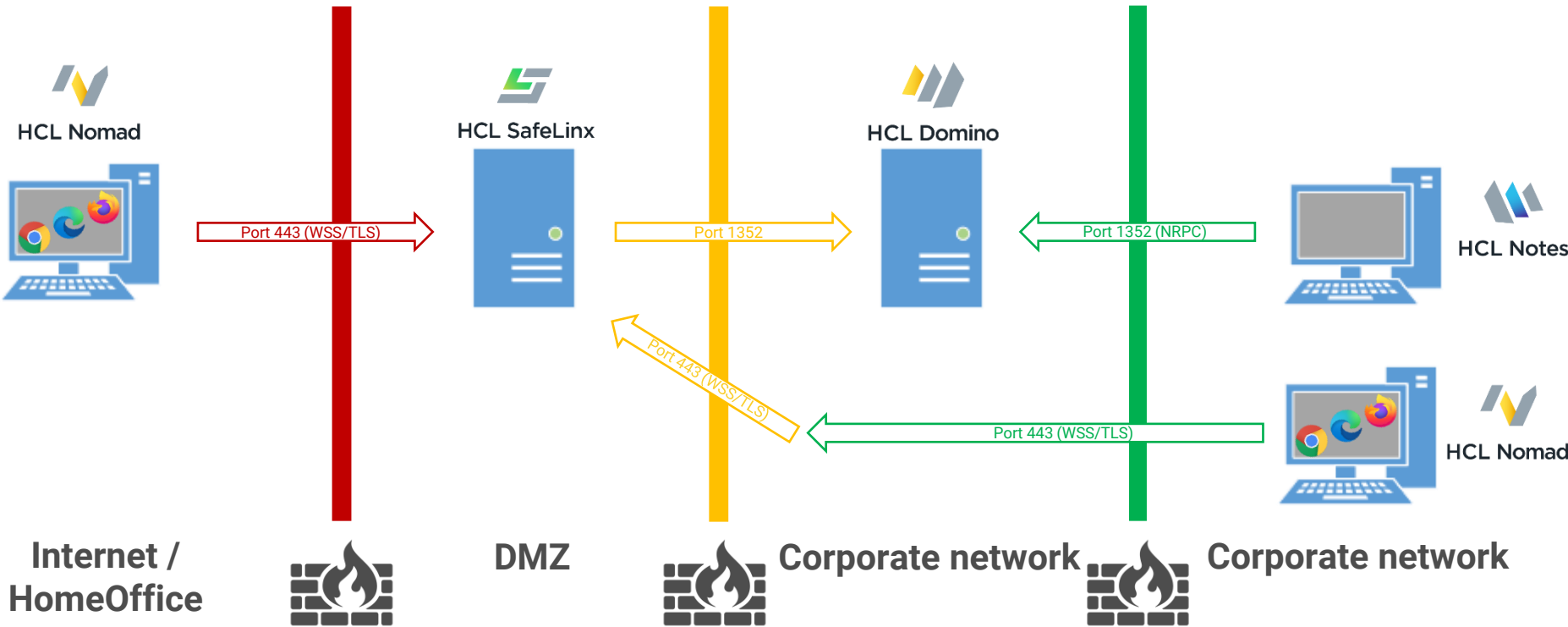
- ◆ [Nomad Product Documentation](#) 
- ◆ [Nomad Community Forum](#) 

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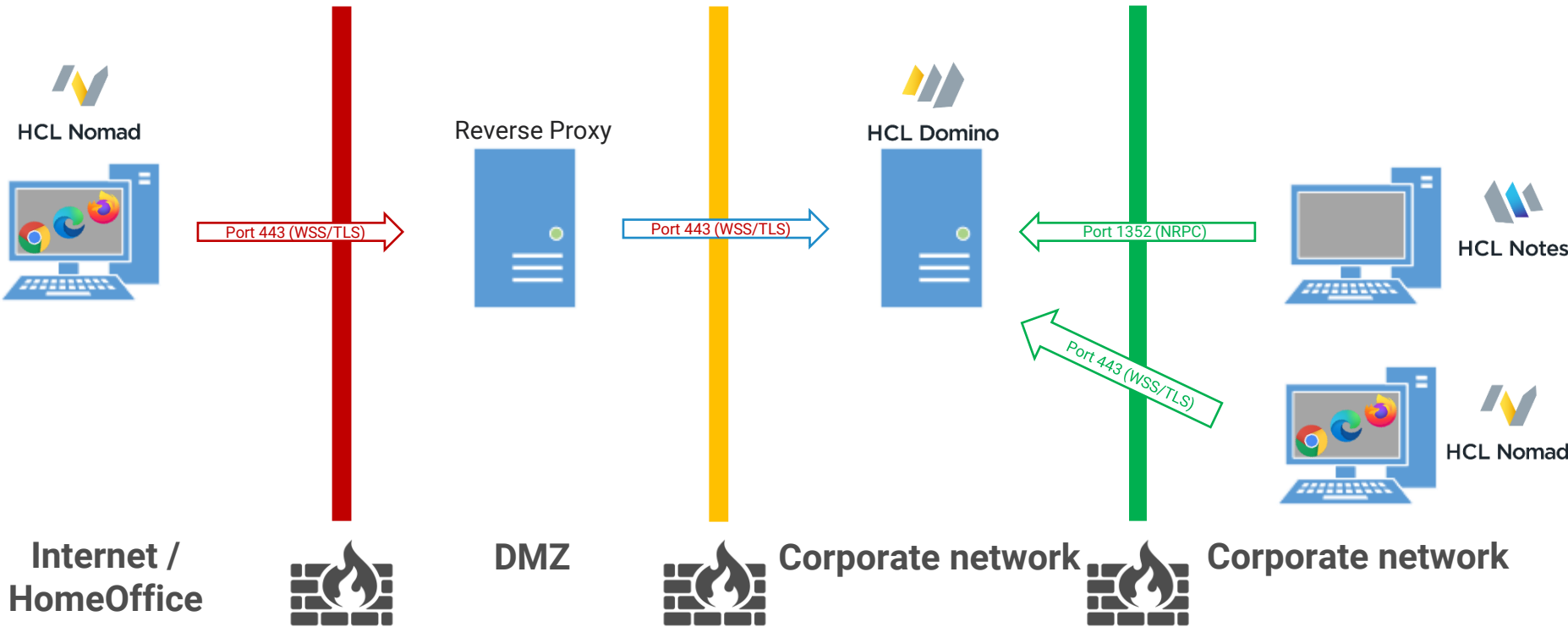


Infrastructure overview & Installation

HCL Nomad Web using SafeLinx



HCL Nomad server for Domino



HCL Nomad server for Domino

Quick Checklist / prerequisites before installation

1. Download "HCL Nomad server for Domino"
2. Domino 12.0.1 or 12.0.2* (Windows or Linux)
3. ID Vault needs to be enabled (ID's must be available in the Vault)
4. TLS certificate for Nomad server for Domino



* HCL Nomad Server for Domino 1.0.9 is currently only available for Domino 12.0.2

HCL Nomad server for Domino

TLS Certificate

Do you need a trusted / valid TLS certificate for Nomad Web?






→ **YES!**

Can you use the “new” Certificate Manager for configuring TLS certificates?

→ **YES!**



HCL Nomad server for Domino

Name	Date modified	Type	Size
 HCL_Nomad_web_1.0.8_20230519-4788_for_HCL_SafeLinux.zip	14.06.2023 12:43	Compressed (zipped) Folder	140 549 KB
 nomad-server-1.0.8-for-domino-1201-linux.tgz	14.06.2023 12:47	TGZ File	180 463 KB
 nomad-server-1.0.8-for-domino-1201-win64.zip	14.06.2023 12:47	Compressed (zipped) Folder	165 626 KB
 nomad-server-1.0.8-for-domino-1202-linux.tgz	14.06.2023 12:46	TGZ File	180 468 KB
 nomad-server-1.0.8-for-domino-1202-win64.zip	14.06.2023 12:46	Compressed (zipped) Folder	165 626 KB

Installation

1. Pick one or more 1201 Fix Pack 1 or higher Domino server to install on.
2. Download and extract the corresponding zip/tar file for your platform into the Domino program directory.



Note:

- The default directory for Linux is `/opt/hcl/domino/notes/latest/linux/`.
- The default directory for Windows is `C:\Program Files\HCL\Domino`.



HCL Nomad server for Domino

Installation (copy + unzip)

Name	Größe	Gepackte Größe	Geändert am	Zugriffsrechte	Besitzer	Gruppe	Link	Ha
license	188 568	188 928						
nomad-files	141 397 664	141 461 504	2022-09-21 20:06	drwxr-xr-x	0	jenkins		
nomad	43 278 104	43 278 336	2022-09-19 10:29	-rwxr-xr-x				
nwsp-linux	69 482 897	69 483 008	2022-09-21 20:06	-rwxr-xr-x	0	jenkins		

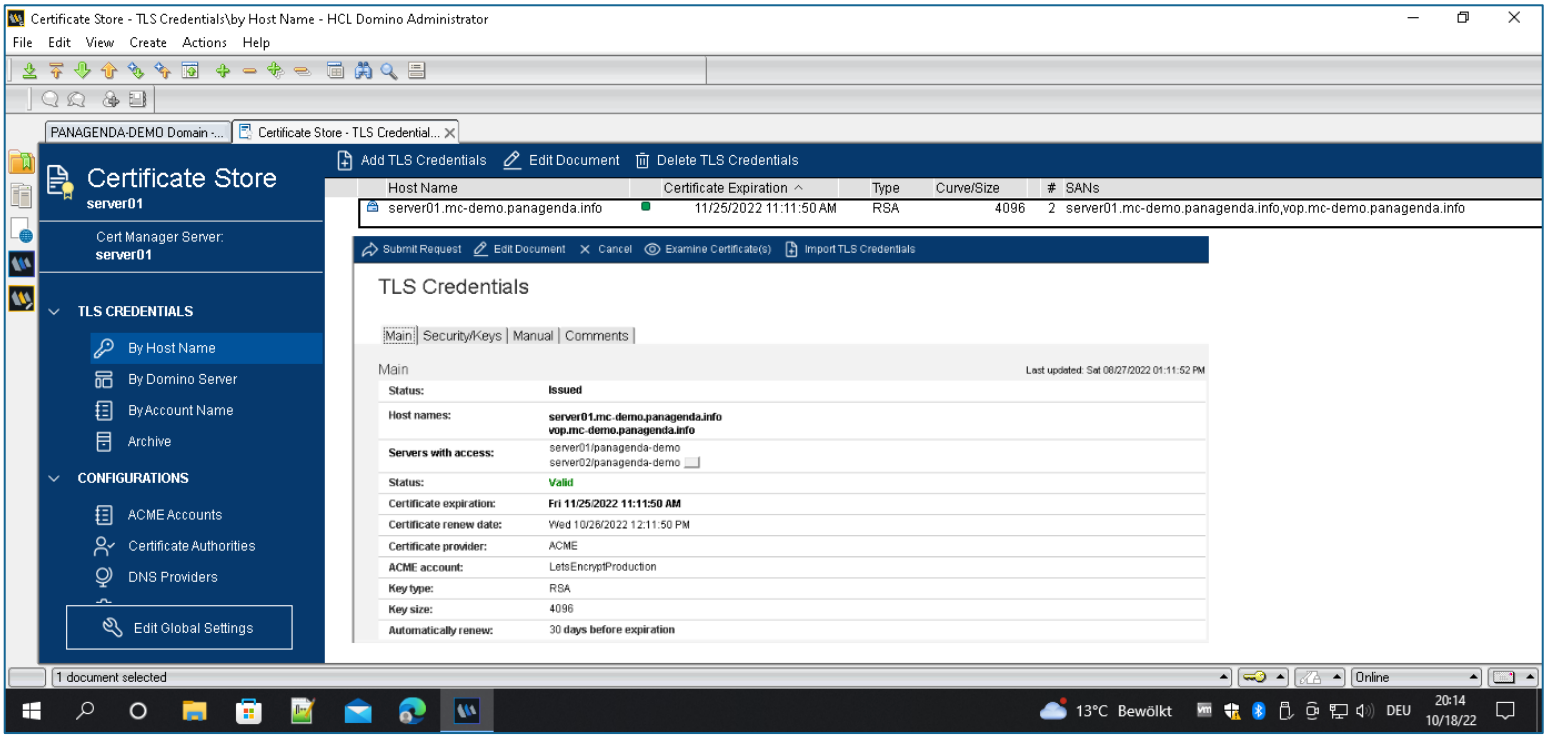


```
-rwxr-xr-x 1 root root 43278104 Sep 19 10:29 nomad
drwxr-xr-x 7 root notes 4096 Sep 21 20:06 nomad-files
-rwxr-xr-x 1 root root 109384 Nov 22 2021 notesei.dcx
-rwxr-xr-x 1 root root 3430 Nov 22 2021 notes.png
-rwxr-xr-x 1 root root 14590 Nov 22 2021 notes_ps.awk
-rwxr-xr-x 1 root root 19664 Nov 22 2021 nsd2xml
-rwxr-xr-x 1 root root 293242 Mar 30 2022 nsd.sh
-rwxr-xr-x 1 root notes 69482897 Sep 21 20:06 nwsp-linux
```

default directory for Linux is /opt/hcl/domino/notes/latest/linux/
default directory for Windows is C:\Program Files\HCL\Domino

HCL Nomad server for Domino

Check the TLS certificate



The screenshot shows the HCL Domino Administrator interface. The left sidebar displays the 'Certificate Store' for 'server01', with 'TLS CREDENTIALS' expanded to show 'By Host Name' selected. The main pane shows a table of TLS Credentials with one entry:

Host Name	Certificate Expiration	Type	Curve/Size	# SANs
server01.mc-demo.panagenda.info	11/25/2022 11:11:50 AM	RSA	4096	2 server01.mc-demo.panagenda.info,vop.mc-demo.panagenda.info

Below the table, the 'TLS Credentials' details for the selected entry are shown:

Main: Security/Keys | Manual | Comments

Main Last updated: Sat 08/27/2022 01:11:52 PM

Status: Issued

Host names: server01.mc-demo.panagenda.info
vop.mc-demo.panagenda.info

Servers with access: server01|panagenda-demo
server02|panagenda-demo

Status: Valid

Certificate expiration: Fri 11/25/2022 11:11:50 AM

Certificate renew date: Wed 10/26/2022 12:11:50 PM

Certificate provider: ACME

ACME account: LetsEncryptProduction

Key type: RSA

Key size: 4096

Automatically renew: 30 days before expiration

HCL Nomad server for Domino

Notes.ini

If you use the (new) CertMgr with Domino you need to add a notes.ini parameter. The value must match with one of your configured TLS certificates in the CertMgr database

```
NOMAD_WEB_HOST=domino.acme.com
```

HCL Nomad server for Domino

Start HCL Nomad server task

Console command: **load nomad**

```
load nomad
[526278:000143-00007F9EA37EF700] 06/14/2023 12:30:52 PM Remote console command issued by christoph adler/panagenda: load nomad
[690724:000002-00007FF3D93D27C0] 06/14/2023 12:30:52 PM Nomad: Build 0.15.7-1+ND12000101
[690724:000002-00007FF3D93D27C0] 06/14/2023 12:30:54 PM Nomad: Server initializing
[690724:000002-00007FF3D93D27C0] 06/14/2023 12:30:54 PM Nomad: Listening on 127.0.0.1:7125, CLIENT-IS-SERVER
[690724:000002-00007FF3D93D27C0] 06/14/2023 12:30:54 PM Nomad: Note: Requested port was 0, Actual listen port is 7125
[690724:000002-00007FF3D93D27C0] 06/14/2023 12:30:54 PM Nomad: Server initialized
```

Check Task, console command: **sh tasks**

```
[526278:000010-00007F9F1C88D700] Nomad Listen for connect requests on 0.0.0.0:9443
```

HCL Nomad server for Domino

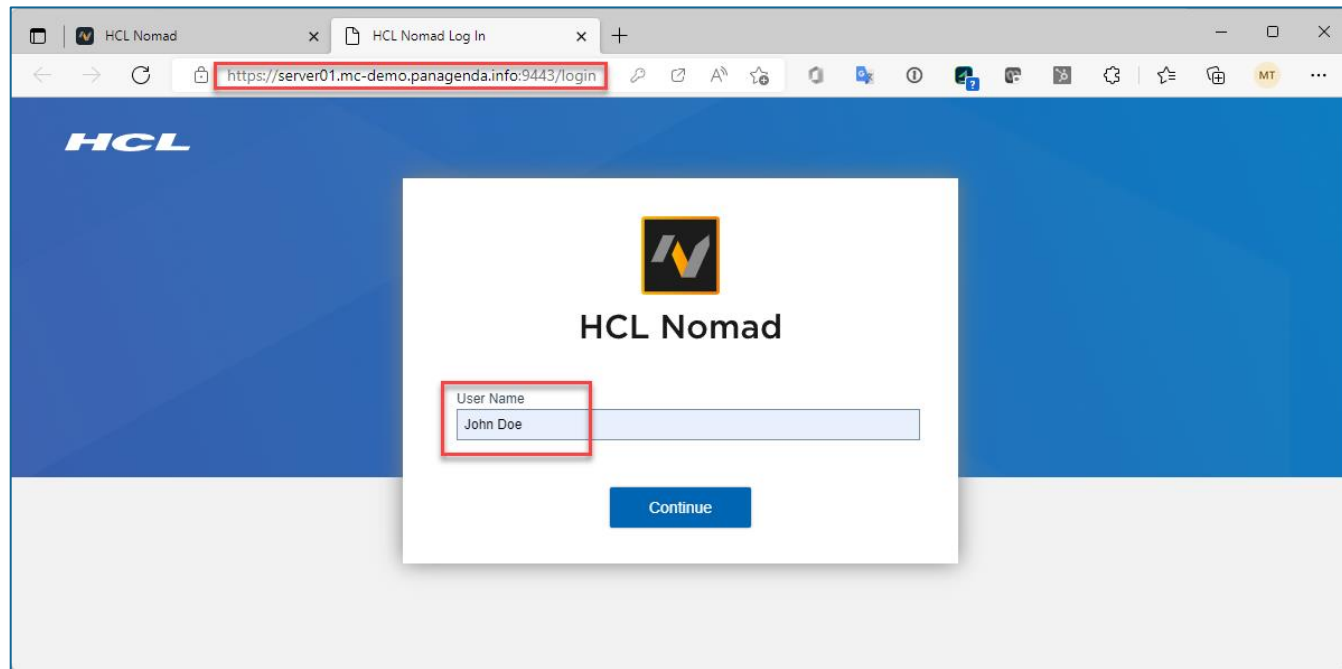
```
top - 18:00:33 up 207 days, 6:50, 2 users, load average: 0.04, 0.08, 0.03
Tasks: 137 total, 1 running, 136 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.6 us, 0.3 sy, 0.0 ni, 98.8 id, 0.0 wa, 0.1 hi, 0.1 si, 0.1 st
MiB Mem : 7768.1 total, 5638.2 free, 1166.9 used, 963.0 buff/cache
MiB Swap: 0.0 total, 0.0 free, 0.0 used. 5655.5 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
18571	notes	20	0	1088.6m	69.3m	50.9m	S	0.3	0.9	4:35.73	clrepl
16584	notes	20	0	13.6m	3.1m	1.7m	S	0.0	0.0	0:00.01	rc_domino_scrip
16642	notes	20	0	2691.0m	260.1m	175.5m	S	0.0	3.3	4:16.16	server
16679	notes	20	0	623.3m	48.2m	28.5m	S	0.0	0.6	0:14.11	logasio
16695	notes	20	0	1155.6m	169.3m	147.9m	S	0.0	2.2	3:48.07	event
17383	notes	20	0	630.3m	75.4m	55.8m	S	0.0	1.0	0:13.37	dircat
17386	notes	20	0	630.6m	158.0m	138.3m	S	0.0	2.0	0:26.19	replica
17388	notes	20	0	827.1m	63.7m	42.7m	S	0.0	0.8	1:23.50	router
17390	notes	20	0	893.2m	100.1m	75.5m	S	0.0	1.3	0:29.57	update
17394	notes	20	0	629.6m	66.7m	45.8m	S	0.0	0.9	0:17.93	amgr
17398	notes	20	0	758.9m	255.6m	231.4m	S	0.0	3.3	1:51.35	adminp
17400	notes	20	0	629.3m	70.5m	51.2m	S	0.0	0.9	0:22.80	sched
17401	notes	20	0	622.8m	45.9m	27.1m	S	0.0	0.6	0:15.13	calconn
17402	notes	20	0	627.2m	67.5m	47.7m	S	0.0	0.9	0:23.16	rnrmgr
17410	notes	20	0	4421.0m	243.1m	109.7m	S	0.0	3.1	2:13.45	http
17411	notes	20	0	899.6m	233.1m	208.1m	S	0.0	3.0	0:57.05	ldap
17412	notes	20	0	693.4m	46.9m	29.0m	S	0.0	0.6	0:26.44	daosmgr
17448	notes	20	0	689.0m	87.4m	66.4m	S	0.0	1.1	0:28.97	certmgr
17567	notes	20	0	636.3m	124.8m	102.1m	S	0.0	1.6	0:26.92	amgr
18345	notes	20	0	627.1m	65.1m	46.1m	S	0.0	0.8	0:15.80	clbdbdir
40592	notes	20	0	1236.4m	71.4m	47.9m	S	0.0	0.9	0:03.35	nomad
40606	notes	20	0	710.7m	73.8m	32.9m	S	0.0	1.0	0:01.28	nwsp-linux
40614	notes	20	0	911.7m	85.0m	33.1m	S	0.0	1.1	0:01.85	nwsp-linux
40618	notes	20	0	839.5m	74.3m	33.0m	S	0.0	1.0	0:01.46	nwsp-linux
40621	notes	20	0	913.0m	84.2m	33.2m	S	0.0	1.1	0:01.70	nwsp-linux
40627	notes	20	0	781.0m	84.5m	33.0m	S	0.0	1.1	0:01.73	nwsp-linux
3893960	notes	20	0	918.7m	92.0m	33.3m	S	0.0	1.2	0:17.87	nwsp-linux
3893966	notes	20	0	920.3m	93.8m	33.6m	S	0.0	1.2	0:38.37	nwsp-linux

HCL Nomad server for Domino

Open HCL Nomad and first login

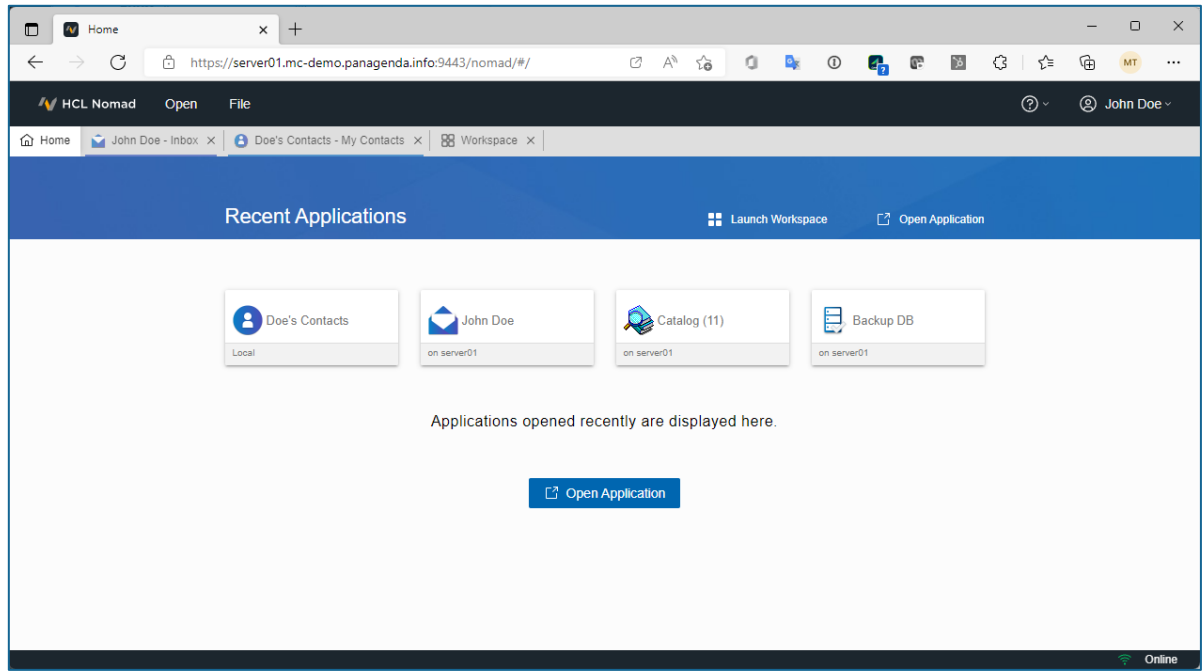
The Nomad server is listening on Port: 9443 in default



HCL Nomad server for Domino

Open HCL Nomad and first login

The Nomad server is listening on Port: 9443 in default



HCL Nomad server for Domino

Configuration of the Nomad server

To change default settings, you need to create a YAML file in the Domino Data named:

`nomad-config.yml`

Here you can configure:

- Ports
- IP Addresses
- Certificates
- Cookies
- Refresh rates





Best Practices for HCL Nomad Web

How to configure Port 443 on Linux based Domino servers

Challenge:

Binding ports lower than 1024 is prohibited by default.
(This is NodeJS standard security)

Solution:

You need to give the NodeJS task the right to bind to ports lower than 1024

How to configure Port 443 on Linux based Domino servers

Step 1:

Nomad must not run. Execute the following line to set the correct permissions

```
setcap 'cap_net_bind_service=+ep' /opt/hcl/domino/notes/latest/linux/nwsp-linux
```

Step 2:

Create a “nomad-config.yml” file in the Data Directory with the following two entries

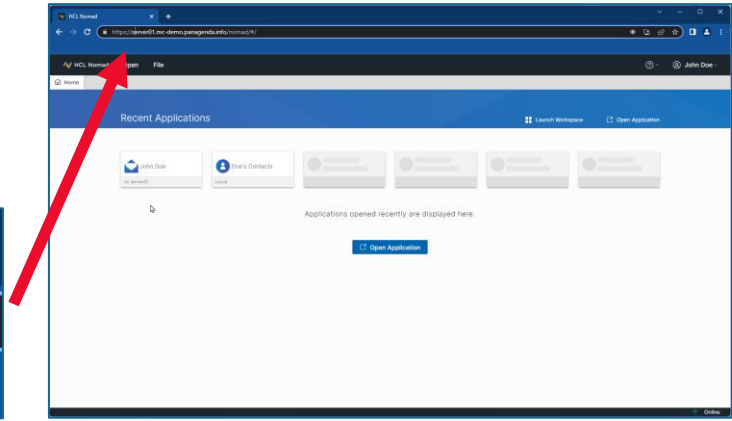
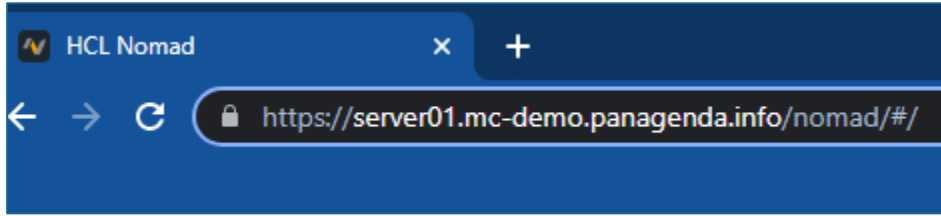
```
GNU nano 2.9.8 nomad-config.yml
host: '0.0.0.0'
port: 443
```

How to configure Port 443 on Linux based Domino servers

Step 3:

Start nomad on Domino. (load nomad)

```
> load nomad
> [926809:000002-00007F24F95937C0] 12/06/2022 07:18:12 PM Nomad: Build 0.15.5-19+ND12000101
[926809:000002-00007F24F95937C0] 12/06/2022 07:18:15 PM Nomad: Server initializing
[926809:000002-00007F24F95937C0] 12/06/2022 07:18:15 PM Nomad: Listening on 127.0.0.1:2801, CLIENT-IS-SERVER
[926809:000002-00007F24F95937C0] 12/06/2022 07:18:15 PM Nomad: Note: Requested port was 0, Actual listen port is 2801
[926809:000002-00007F24F95937C0] 12/06/2022 07:18:15 PM Nomad: Server initialized
```



Browsers instead of installed Notes Clients

Cache

Browser Profiles

CPU & Memory consumption

Performance & sizing

VDI / Citrix / VMware

Browsers Task Manager
<shift> + <esc>

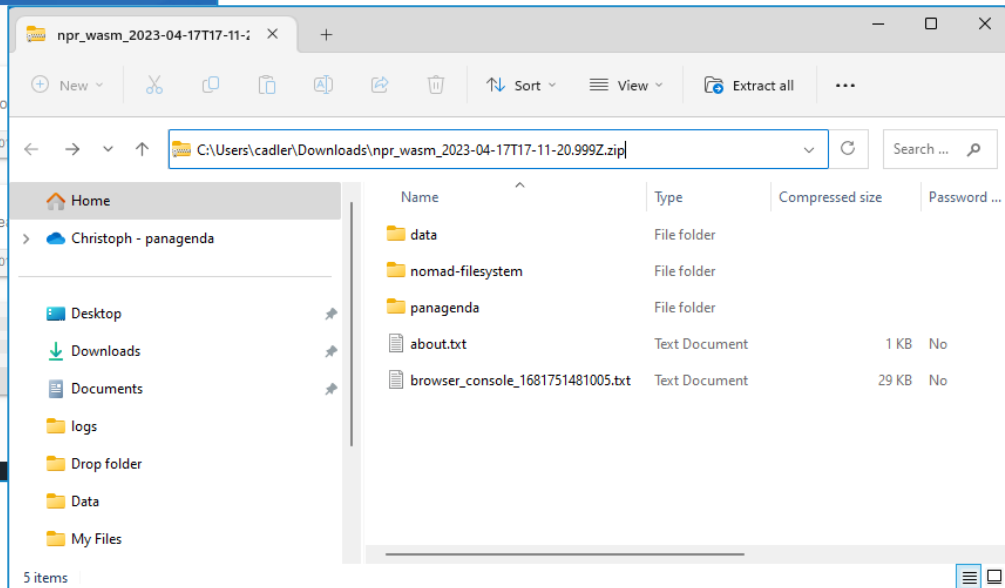
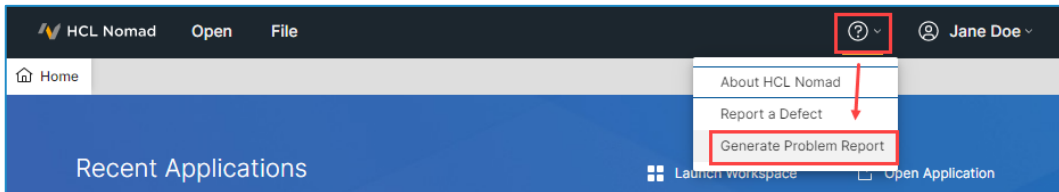
Developer Tools

“console”

Log files

Where to find log files?

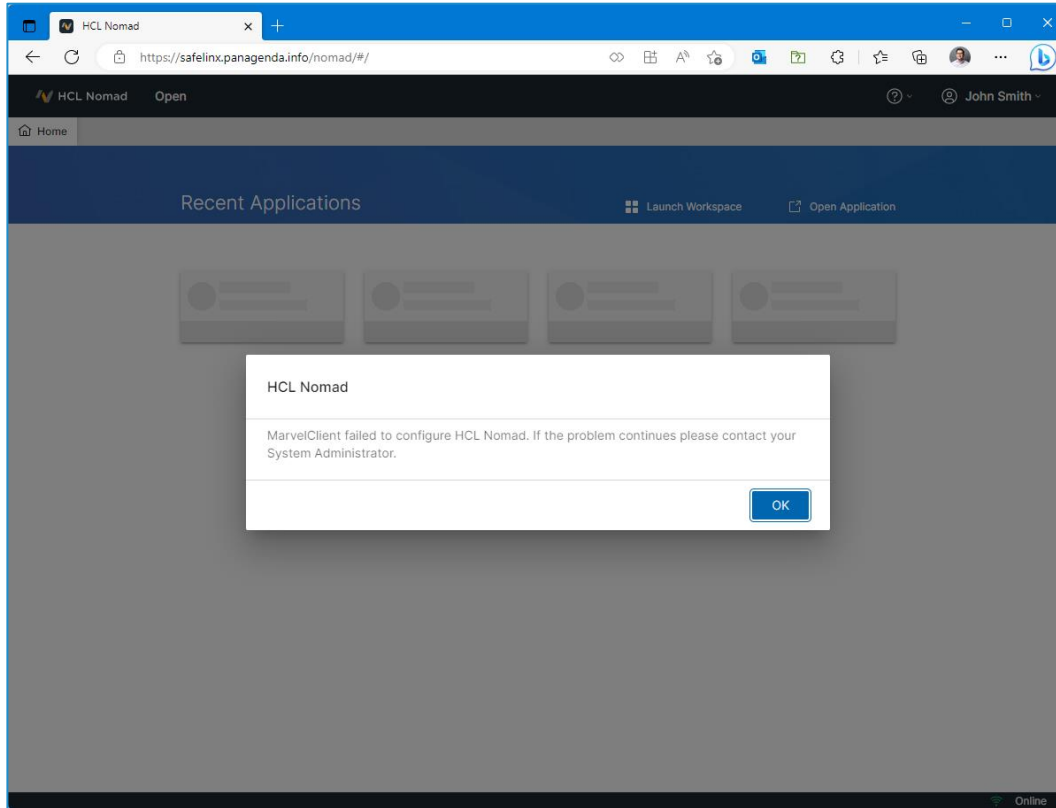
➤ Chrome, Edge & Firefox



BUT

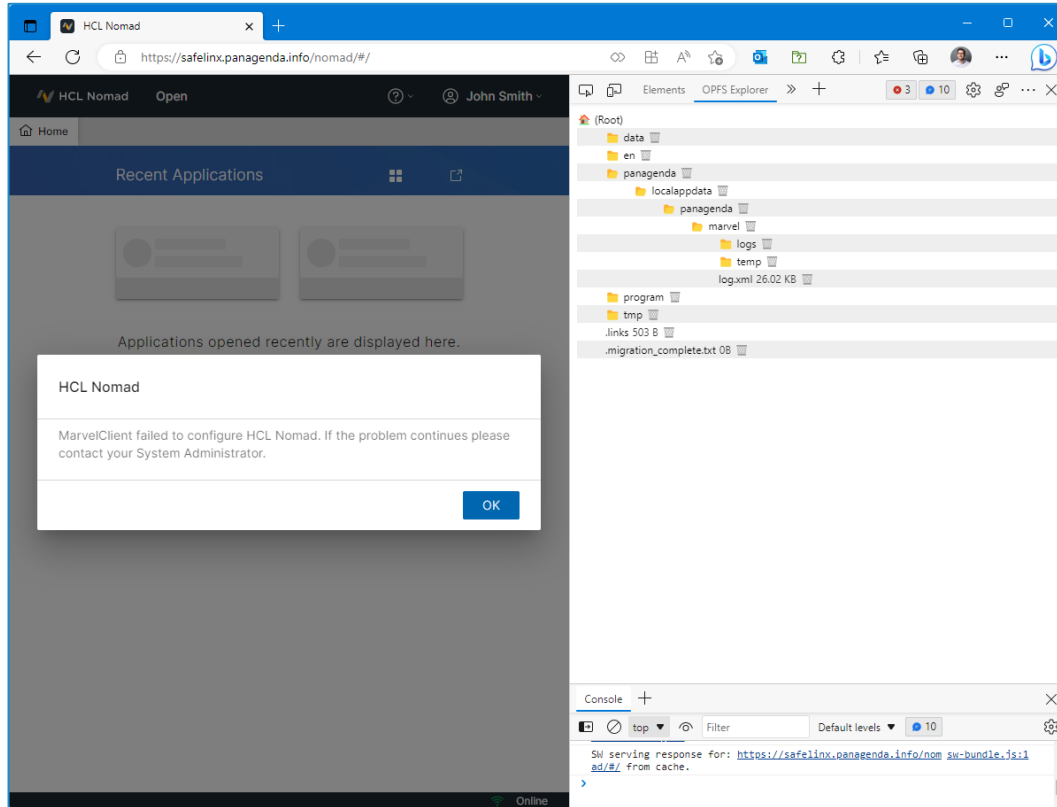
Example where logs couldn't help

➤ What if you can't use "Generate Problem Report" (issue during start-up) ?



Troubleshooting/log files – 4. Browsers (cont.)

➤ What if you can't use "Generate Problem Report" (issue during start-up) ?



Troubleshooting/log files – 4. Browsers (cont.)

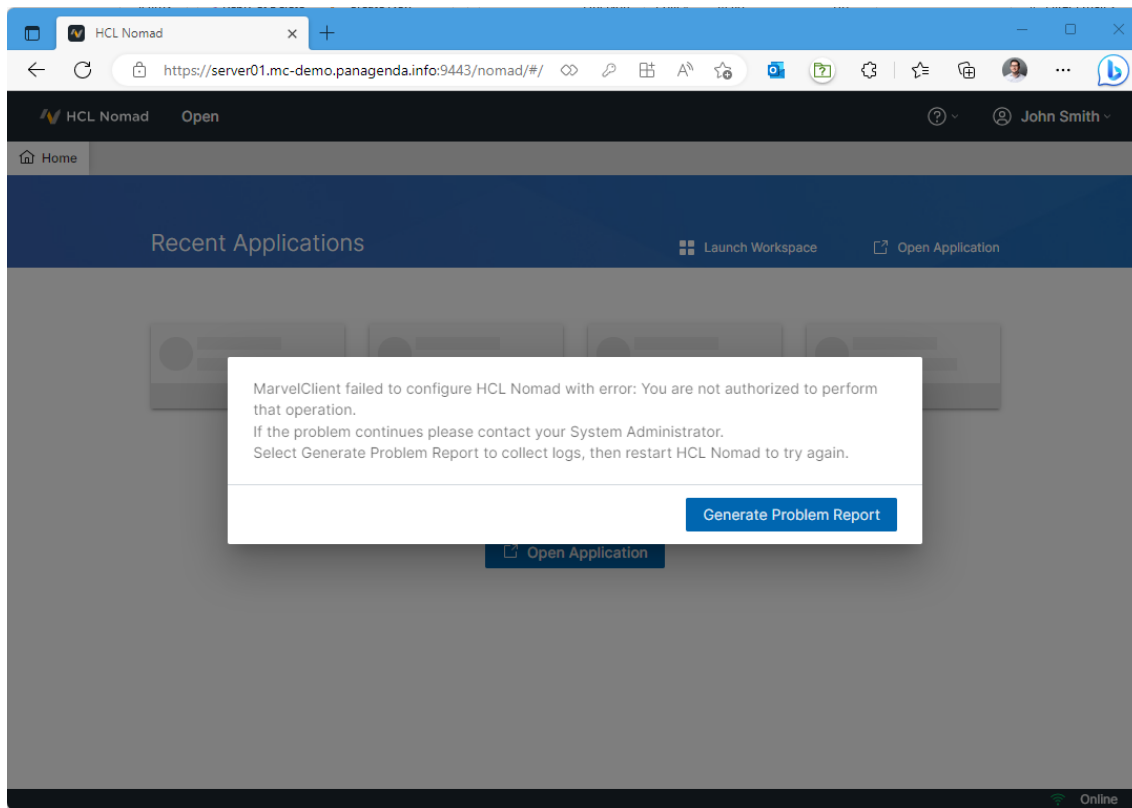


➤ What if you can't use "Generate Problem Report" (issue during start-up) ?

```
server01/panagenda-demo!!panagenda\panagenda.nsf; NDError#: 16643 - File does not exist</m></le>
156 <le><t>41268</t><l>2</l><i>2</i><f>AM::ActionMan_Impl::VROpenSourceView::TryDB</f><m>trying to open config database:
'CN=server01/0=panagenda-demo!!panagenda\pmc_config.nsf'</m></le>
157 <le><t>41269</t><l>2</l><i>2</i><f>Open</f><m>opening database: (00000000:00000000)
'CN=server01/0=panagenda-demo!!panagenda\pmc_config.nsf'</m></le>
158
159
160 <le><t>41321</t><l>0</l><i>2</i><c>ERROR</c><f>AM::ActionMan_Impl::VROpenSourceView::TryDB</f><m>could not open: GetDatabase: could not
get database 'CN=server01/0=panagenda-demo!!panagenda\pmc_config.nsf': Open: could not open database
'server01/panagenda-demo!!panagenda\pmc_config.nsf; NDError#: 582 - You are not authorized to perform that operation</m></le>
161
162
163 <le><t>41323</t><l>0</l><i>2</i><c>ERROR</c><f>RunViewreader</f><m>error while downloading new actions from config db: VROpenSourceView:
could not locate a config db</m></le>
<le><t>41324</t><l>2</l><i>2</i><m>sending BUSY_MESSAGE_MARVELCLIENT_POSTSETUP</m></le>
164 <le><t>41348</t><l>2</l><i>2</i><m>-----</m></le>
165 <le><t>41349</t><l>2</l><i>2</i><m>-----</m></le>
166 <le><t>41350</t><l>2</l><i>2</i><f>Execute</f><m>run section afterloginbeforesync</m></le>
167 <le><t>41351</t><l>2</l><i>2</i><f>Execute</f><m>executing 0 actions</m></le>
168
```

Troubleshooting/log files – 4. Browsers (cont.)

➤ **By the way: This issue is already fixed since Nomad Web 1.0.7**



OPFS Explorer – Browser plugin

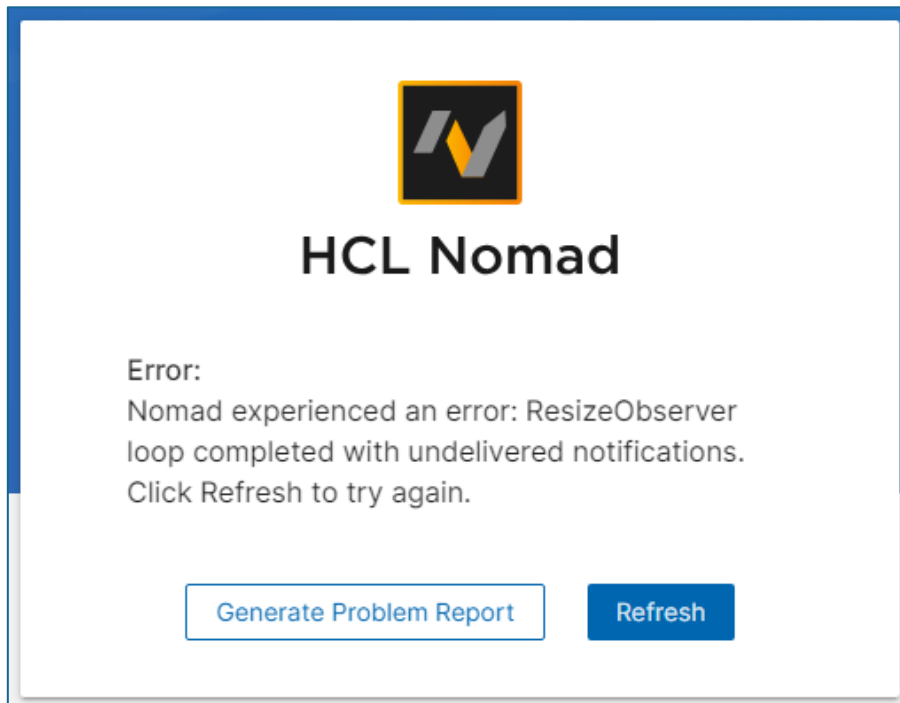
OPFS Explorer is a Chrome DevTools extension that allows you to explore the Origin Private File System (OPFS) of a web application.



<https://tinyurl.com/OPFSExplorer>

Possible HCL Nomad Web 1.0.9 issue with LastPass

- If you use LastPass & HCL Nomad Web 1.0.9 in Chrome/Edge, you might see this here – after ID-Vault password prompt on initial start:



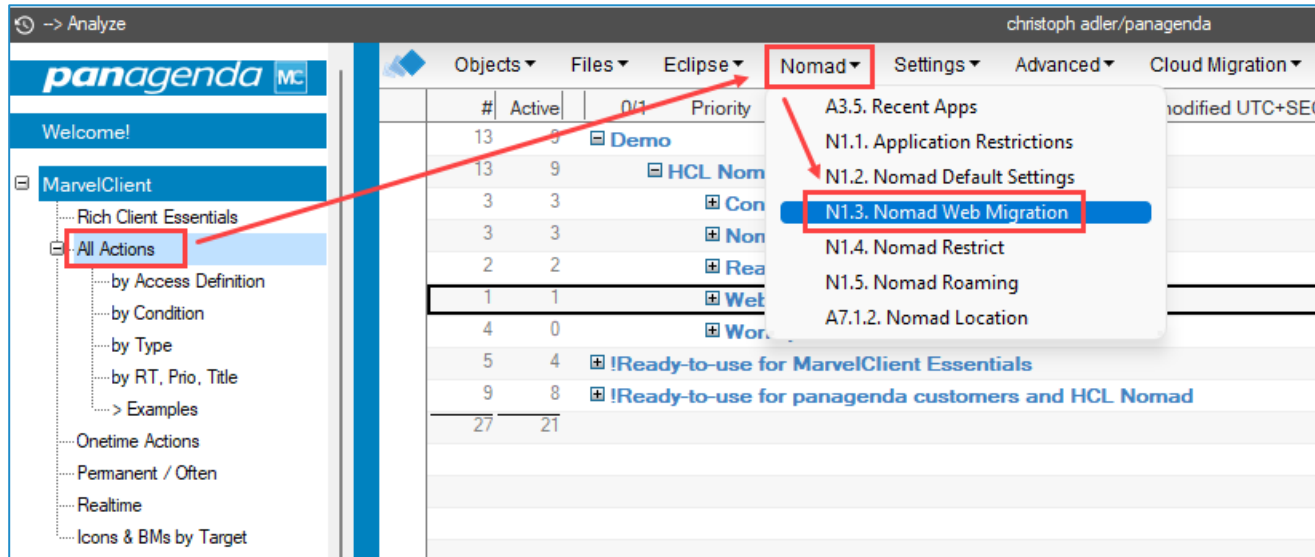
From NOTES to NOMAD WEB

MarvelClient – FREE Nomad Web Migration

- This functionality is included in CCB
(free for all customers with active HCL maintenance)
- **Requirement**
Every user **must** have a user profile / upload document in the MarvelClient Analyze database (including bookmark.xml, desktop.xml and notes.ini) and **must not** be a Domino Roaming user.

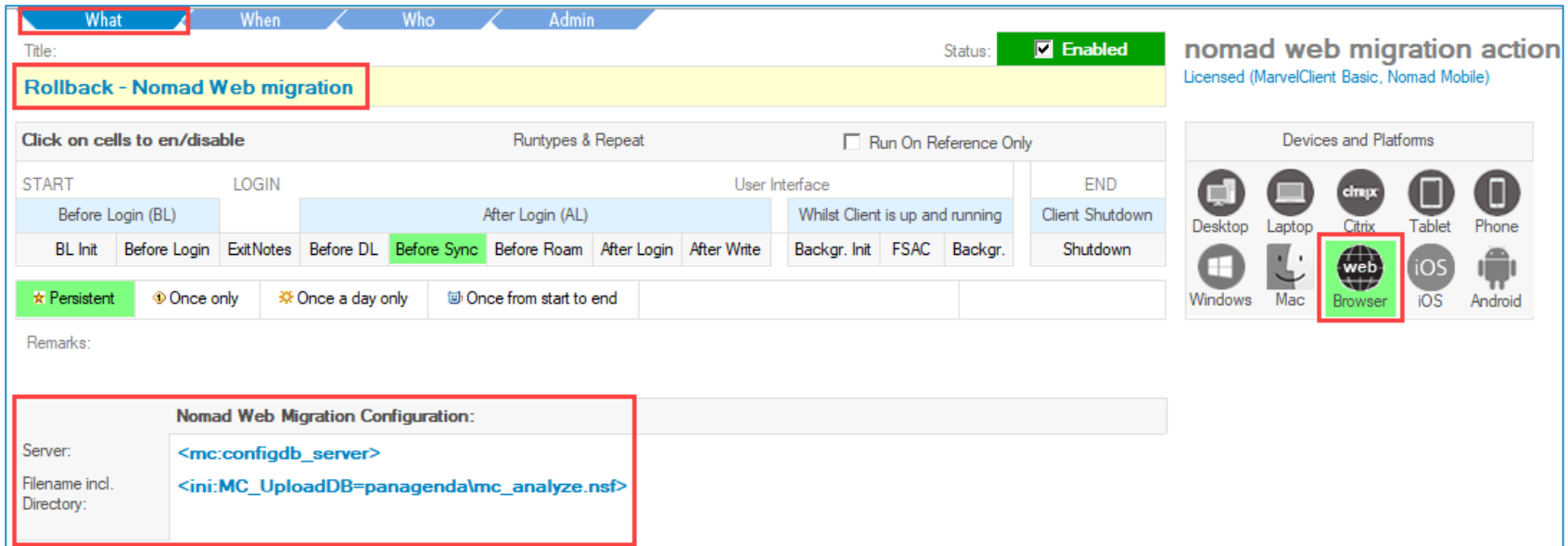
MarvelClient – Nomad Web Migration (cont.)

- A single and simple MarvelClient action brings happiness for your users



MarvelClient – Nomad Web Migration (cont.)

- A single and simple MarvelClient action brings happiness for your users



The screenshot shows the configuration for a 'nomad web migration action'. The title is 'Rollback - Nomad Web migration' and the status is 'Enabled'. The configuration is divided into several sections:

- Click on cells to en/disable**: A table with columns for START, LOGIN, User Interface, and END. The 'Before Sync' cell is highlighted in green.
- Runtypes & Repeat**: Includes a checkbox for 'Run On Reference Only' and frequency options: Persistent, Once only, Once a day only, and Once from start to end.
- Remarks**: A section for additional notes.
- Nomad Web Migration Configuration**: A section with fields for Server, Filename incl., and Directory, containing configuration values like '<mc:configdb_server>' and '<ini:MC_UploadDB=panagenda\mc_analyze.nsf>'. The 'Server' field is highlighted in green.
- Devices and Platforms**: A grid of icons for Desktop, Laptop, Citrix, Tablet, Phone, Windows, Mac, Browser, iOS, and Android. The 'Browser' icon is highlighted in green.

DEMO

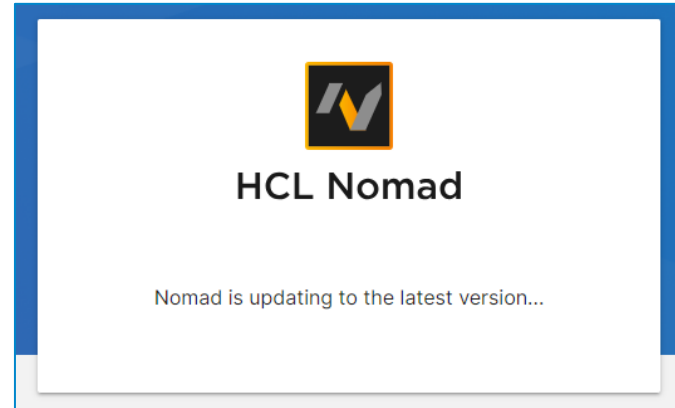
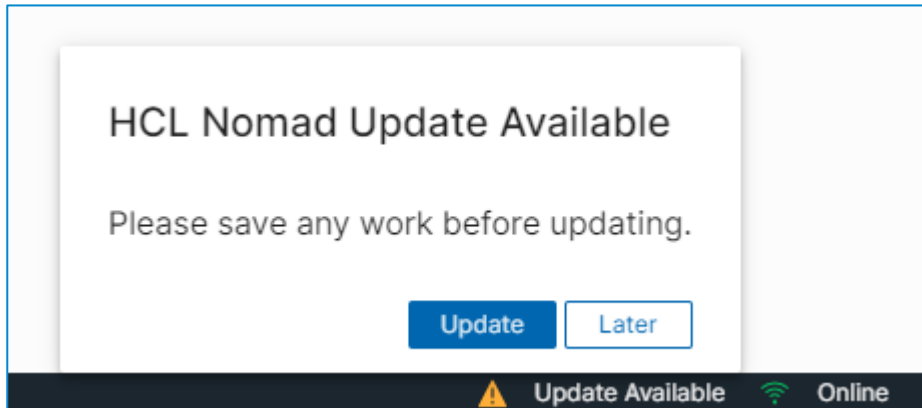
if we have enough time 😊

A white step ladder is positioned on the left side of a white, three-dimensional staircase that recedes into the background. The scene is brightly lit, creating soft shadows and highlights on the surfaces.

Bonus

Questions we got asked at recent conferences

1. How can I use NomadWeb if my Domino server(s) run on AIX or System i?
2. How can I upgrade the local Nomad 'installations' in case of a new version is available?





Questions we got asked at recent conferences – cont. *panagenda*

3. We are using Microsoft Outlook. If we get document links from Domino Applications, Windows asks me with which Application the link should be opened. Can we configure it that Nomad Web will be used for those links?

→ see next slide



Questions we got asked at recent conferences – cont.

Example for Microsoft Edge

```
1 Windows Registry Editor Version 5.00
2 [HKEY_CURRENT_USER\SOFTWARE\Classes\notes]
3 "URL Protocol"=""
4 @=""
5
6 [HKEY_CURRENT_USER\SOFTWARE\Classes\notes\shell]
7
8 [HKEY_CURRENT_USER\SOFTWARE\Classes\notes\shell\open]
9
10 [HKEY_CURRENT_USER\SOFTWARE\Classes\notes\shell\open\command]
11 @="explorer.exe \"%web+%1\""
12
13
14 [HKEY_CURRENT_USER\SOFTWARE\Classes\web+notes]
15 "URL Protocol"=""
16
17 [HKEY_CURRENT_USER\SOFTWARE\Classes\web+notes\DefaultIcon]
18 @="C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe,0"
19
20 [HKEY_CURRENT_USER\SOFTWARE\Classes\web+notes\shell]
21 @="open"
22
23 [HKEY_CURRENT_USER\SOFTWARE\Classes\web+notes\shell\open]
24
25 [HKEY_CURRENT_USER\SOFTWARE\Classes\web+notes\shell\open\command]
26 @="\"C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe\" --single-argument %1"
27
28 [HKEY_CURRENT_USER\SOFTWARE\Classes\web+notes\shell\open\ddeexec]
29 @=""
30
```



THANK YOU!



Your Feedback Matters to Us





Christoph Adler

Head of Solution Consulting EMEA &
HCL Ambassador

panagenda

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